Foundation research grant had been 512,000 per year. I had shat position since September 1976. I had lived in amos, Jowa for two years. The whole time I rented a small house at 403'2 Incoln Way for \$125 per month The runer was Dore Harris, who also owned starus IV and appliance, right next to the house. Behind the house was the double-track Chicago and Northwedern main line. On the other side of the house was a Sambo's resteraint on the front was a parking lot.

The house was small or had a kitchen and during room in the front a living room had a small door which exited into the Samlo's parking lot the bedroom was barely large enough for a double-bed. Ot had a shower stall in the same room and the toilet

was en the closet.

The roof leaked in the rain. One morning I was sitting in the kitchen when the reiling gave a sigh and it started rainting vermiculite insulation from where the plasterboard had soaked and broken loose. The pipes froze in the winter Once a train even derailed with a rhunderous crash around, but not through, the house.

as a graduate student in Computer science. The department head was Robert Stewart. He gave me a research assistantship under Stephan Silverston who was working with Barry White of the music department. The project was called DSMVS (Down State Computerized Music Snystom). I met Steve Christiansen who was an EE grad student as DSMVS was also a joint project through Jerry Smary of the Electrical Engineering Department.

28MVS had a PDP 11/20 with 8K core. They built their own UNIBUS carch to control a Buela synthesizer with a paper-tape operating system they had two programs running. Score and Play was a real time music interpreter which allowed students to enter a score and play 2 voice music. The second

program allowed students to define envelops and play them real time.

My first year was spent writing a DOS for the ISMUS system we purchased an RX-11 hard disk from the newman Computer Exchange of amn arbon, michigan The ISMUS's System was used to teach music 348, an introductory computer music system. We used DEC mubli-user BASIC wich two terminals and BK of core Scott Patterson Joined us in the summer of 1976 and started work on hardware. meanwhile I became a microcomputer pioneer. I built the TV typewriter II from the Radio -Electronics plans. I attempted to duplicate the Mark -8, 8008 magazino Do was October, 1975. Roger Camp of the EE department put a flyer from PEHECO (later microcomputer associates) that achientised the golt computer for \$159. I sent my check that day. I introduced myself to Roger Camp. He showed me the first MDT-650 prototype that had been given to Doug State University. Ste introduced me to mike Corder and V Jerry niebalum of Compass, one of the

I built my Jolo kit and started using the mos 6502 oross assembler running on the IBM 360 at school. I drote my own Computing newsletter and Dr. Jobbs journal a friend, Paul Dilliam, entroduced me to the first boque of a new magazine, desorted entirely to mico-compiling-BYTE. Debought the OAF (aliver audio Engineering paper tape reader, It was hand powered and used a photo-diade curray. I had to use a portable lamp and the it for each tape. I bought a Litter paper tape punch mechanism and interfaced Into a 6520. I lought a Sweda cash register printer and built all the interface to control it assembler-bodder package. The assembler was one-pass and kept a forward reference table. Compose heard what I was doing and hired me to translate the MDT assembles ento PDP-11 code to make a new cross-assembles. The

the MDT assembles ento PDP-11 code to make a new cross-assembles. The MDT assembles was produced from the FORTRAN cross-assembles. This can be verified today by looking at the labels. The subvordines were labeled

A-N and the FORTRAN line numbers attached - e.g. H8895. The completed development system included a simulator called nin mac.

My goto system even paid for itself. Roger Camp had a personal lusiness called Camp Instruments, see was developing a microprocessor controlled meter and Seito printer for home heating ail delivery trucks. See called this company "Midwest meter". First a edited and assembled his course rode then a rented him my system for debug.

It was about 11 a.m on april 29
1977. Do was Saturday. My friends
weren't coming until moon to help
me with the move. I decided to
visit the ISV campus one more
time. I wanted to say good-bye
to Roger because he had been away
in California all week I found
him the 215 coover Hall, the microcomputer lab.

"Say diel Chuck Reddle get in touch with you yet?" said Roger Said "Who?" "He works In a

"He works for Commodore in California".

He has a real neat project Dehink you should see" "D was just talking to him last night and Dehink it would be worthwhile to give him a call"

There's the number -415 326,4000", "Call him collect - D'im sure he's there So I did shorter Padalle Chucks wife, answered and accepted the changes. I explained who I was and mentioned Rogers name. She put Chuck on the line. "Call up United and get yourself on a flight out" Sive us a call back when you get reservations so we can puck you up. Dithink you'll want to stay out here - its more interesting shan IBU If you don't want to stay we'll fly you back to Rochester. I know your moving so well pay to move your stuff later I didn't know what it was but it sounded interesting. Bosides 2 had time to do the noving later of called the airline and my friend frym Memahon. "Trymn" De said.
"Can you store my borker for a couple of days?" Defilled him in on what was happening. "Dean't believe this is happening "Dean't have altright." Tryan was also hard by IBM in Rochester. ste met me at my house at about 1 o'clock. I had a 3:30 pm plane from Des Moines, 30 miles south we moved all my stuff to his basement, showered, and put on a suit. It was the only thing I hadn't packed. By coincidence my suit was blue, so were all my socks, shirts, and pants. Because I was stuck with wearing these doithes for two weeks everyone was to later think I only had blue.

Back at my house I called Commodore to let Chuck know when I was coming so be could meet me shirter answered and said he would be wearing a red and white shipe of shirt white pants, and blue deck shoes. "She will look like he has been nit sailing for the day but he hasn't - he has been working here" said Shirter Sates I was to rearn that his concelled sailing date was with Bell Thomas

Dripped the phone of the wall and gave it to Dene Starris to give back to the phone company. Some gave me back my deposit. Dhopped in the car and raced down I-35 from the car and raced down I-35 from the object widently. Dhad just bought new tires and they were not balanced.

for the gate and they slammed the current don behind me, I witched planes in Danver and flew direct to San Francisco.

arrived in San Francisco in the middle of a rainstorm -- the first in two years The stewarders gave the advice, "conserve water shower with a friend" I dedn't know there was a drought.

Chuck Reddle met me at the gate. He was easy to spot, He was the only one to be droved in a sailing sublit. I met the nost of the crew. Bell Seiler, wearing shorts and long blonde hair in a ponitail, met us near the baggage daim. Shuley Reddle was encling the aurport arriving flights area to avoid parking she was driving a Frd mavertek with aryona states and tires so bald you could see the air.

Chuck took the drivers seat and I the right-front passenger. Shirley and Bill sat in the back, Chuck immediately afford me a job. He explained that I came highly recommended. (obverishy my friend Roger Camp) I told him right out that my IBU offer was \$17,000. Chuck said not to worry about money and that Commodore could beat

that easily.

chuck drove south through the rain on US 101. His driving style was the ultimate in closed loop control. His foot moved up and down on the accelerator in response to the twitches of the speedometer needle.
We exited on Page Onegon expressivary
in Palo alto and then I got lost of
as we made five U-turns in a
now at the intersection of
Page mill Dd and the El Camino. We ended up at the antique, a resteraunt en Palo alto. D really wasn't hungry because I had dinno on the airplane. I also felt uncomfortable because a was the only one wearing a suit. This was untike any interview I had ever had But I felt like I was part of a family. Everyone was friendly. I didn't have to sell myself the on the other intorviews, and the project orinded interesting you heard of the Pet rock -- we have the POT computer said Chuck. Det was to be the first completely self-contained and affordables personal computer. I could appreciate this. I had spent a lot of time and money building a computer and peripherals and here was something for \$595 that included

a keyboard CRT cossette, HK RAM, and nan a full BASIC. Chuck's explained they needed a programmer desperately because they were a month behind schedule and they had an important show coming up.

after dinner I saw the PET We drove around the corner to the Commodore plant at 901 California Ove. Chuck had a key the opened the door disabled the alarm and called the alarm company to took me into the lab.

One wall of the lab was covered with sample calculater clippays, housings, and keyboards. I learned that Commodore had once been a giant in the calculator business. along the other wall in the lab was a bench. There are MDT was connected to a terminal - no - the PFT Chuck explained this was a prototype which had been to a show in sammerer somany. Jeonard Tramiel had varried it there and showed it.

Bill Seiler loaded a program from a cassette valled "Leonards Lunar Lander" It was the same game I had played on my Jult but the graphics were incredible. I could not believe it was so good

Bill starged at Commodore because he had to ride his bicrycle home. Chuck Shirley and I drove to Suratoga where Chuck dropped Shirley off at their home. Chuck and I continued through Saratoga to La Hacienda, a motel on highway 9 It was ? a.m. (4 a.m. mry time). Chuck made me an offen of \$22,500 per year. I was too tired to accept on decline.

The next morning I ralled Chuck to come puck me up. His whole family, two daughters and a son came along, We ate breakfast at Coccos on Sunnyvale-Saratoga Road.

Chuck began to fill me en on the cletails of what my potential job world involve. They were buying the BASIC from a company called microsoft in albuquerque, new morico. Chuck was writing a screen editor. The hardware was being done by Comlog In Phoenin to a dosign thy Commodore My job was to was to write a file oriented operating system that made I/O easy to program from BASIC. Part of the ITO was internal - tape, soneen, Reyboard - and part was external -- the IEEE-488. Chuck explained the philosophy of having intelligent peripherals that took away no

programming resources -- PAM or ROM-- when they were attached.

after breakfast we went to Chucks house on Chalet Some in Saratoga. Bill Seiler joined us again and we were talking about the PET when a surprise visitor

arrived,

manny Somas was the co-inventor of the Jolt with Ray Holt. They said that was how Jolt got its mame because manny was merican amorican manny was working for Commodore as a consultant to work off an old debt with MOS Jechnology. That was the first time I new that Commodore owned MOS. Manny was adapting the TIM 6530-804 monitor to work on the PET.

Chuck and I walked out by his swimming pool. The rainchaps were Till splashing on the water. I told him I would take the job. There were many reasons. I was familian with the G502 microprocessor. I knew the companies' comice compass mos, and microcomputer associates. I liked California better than Minnesota. And the solary was significantly better.

Chuck decided to put me to work that afternoon (Sunday april 30). Chuck was leaving for Phoenix so he decided to leave me one of his cars to use while he was gone. Shirley drove up to Palo alto with Bell Seiler and Chuck and I drove together in another a job offer letter. I signed it . Chuck gave me an assignment to start designing mry program. Chuck gave me a VW lung convolible with Pennsylvania plates and checked me into the Holiday in mean Stanford. I was to stay their for two weeks and then fly back to gove to bring mry can and possissions nit. Chuck put the hotel on his personal Both card. Chuck lot for the cinnert Both card. Chuck left for the airport of called my parents, mry "box" in IBU to decline his offer, and Bill Seiler. Bell and I went to a tiny two seater storda Coupe with Florida plates. after denner I called some friends in Santa Eruz and drove down there for the evening.

by john feagans from the collection of andy finkel